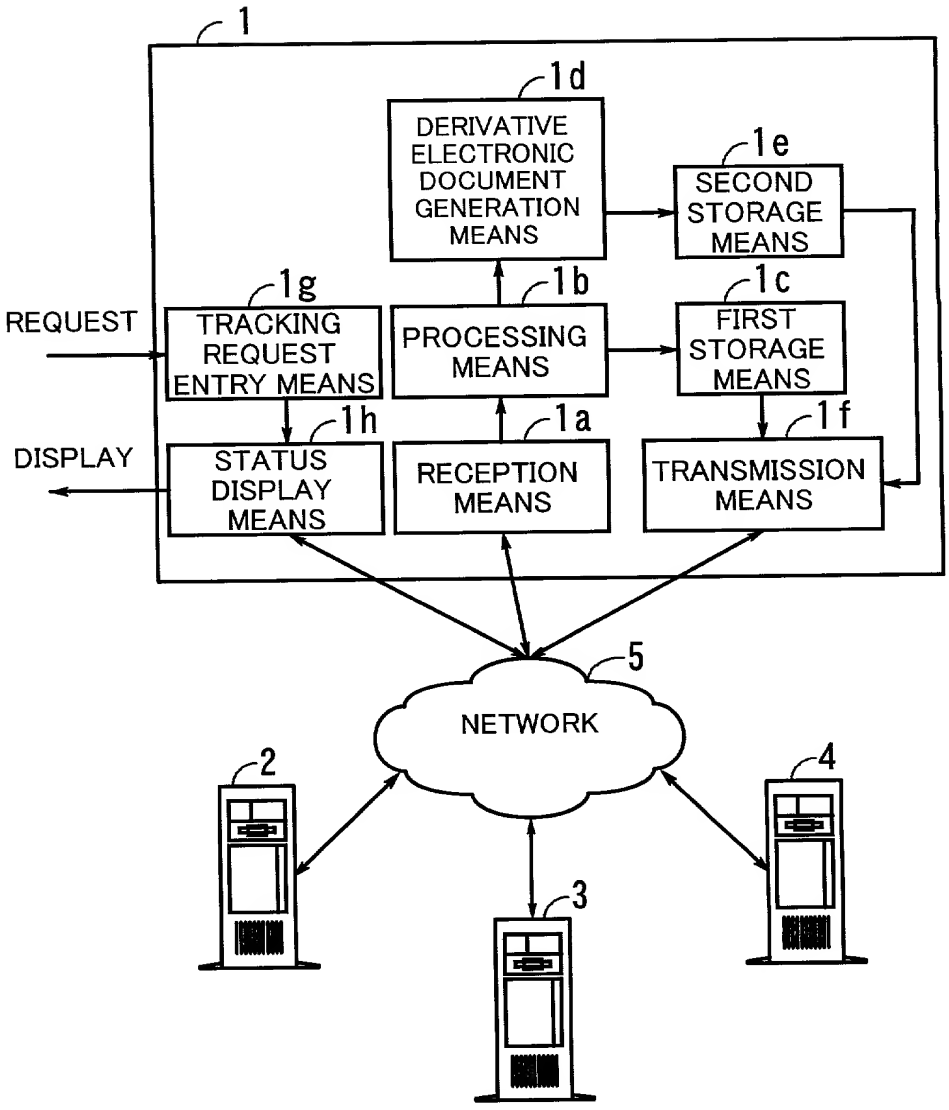
1
1d
DERIVATIVE ELECTRONIC DOCUMENT GENERATION MEANS
1e
SECOND STORAGE MEANS
REQUEST
1g
TRACKING REQUEST ENTRY MEANS
1b
PROCESSING MEANS
1c
FIRST STORAGE MEANS
DISPLAY
1h
STATUS DISPLAY MEANS
1a
RECEPTION MEANS
1f
TRANSMISSION MEANS
5
NETWORK
2
4
3

FIG. 1

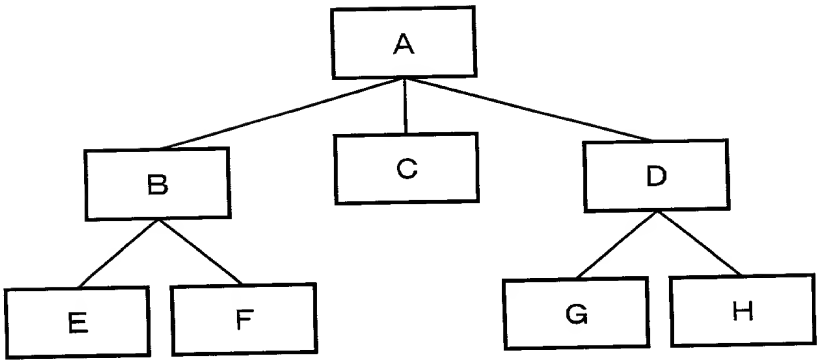
A
B
C
D
E
F
G
H

FIG. 2(A)

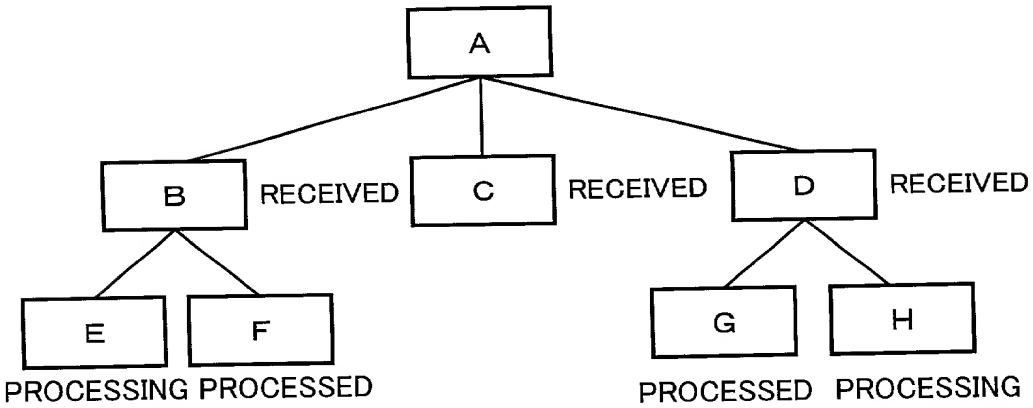
A
B
RECEIVED
C
RECEIVED
D
RECEIVED
E
F
G
H
PROCESSING
PROCESSED
PROCESSED
PROCESSING

FIG. 2(B)

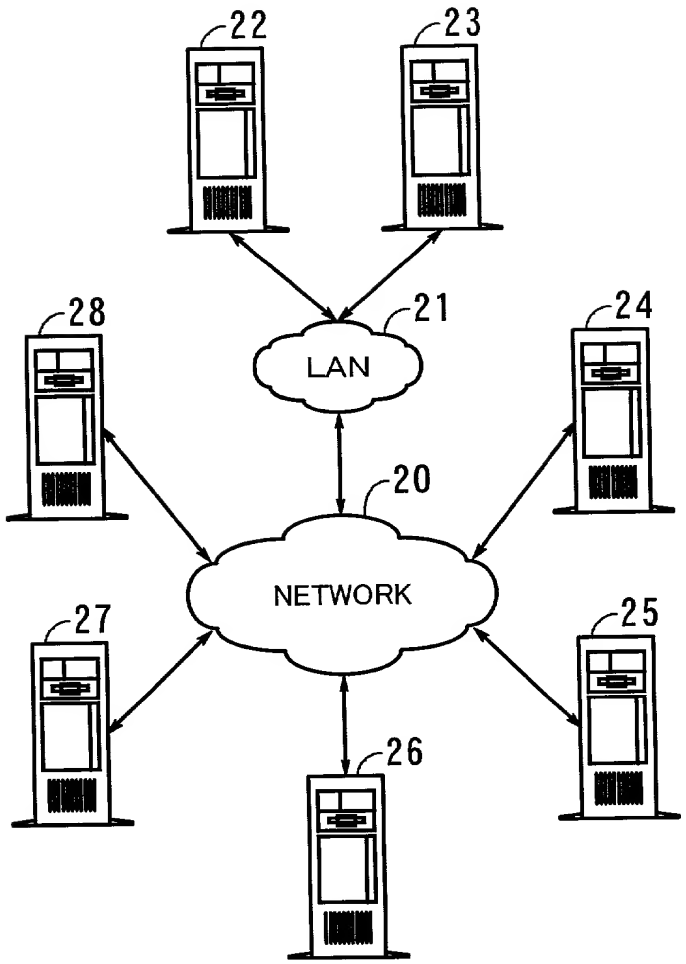

FIG. 3

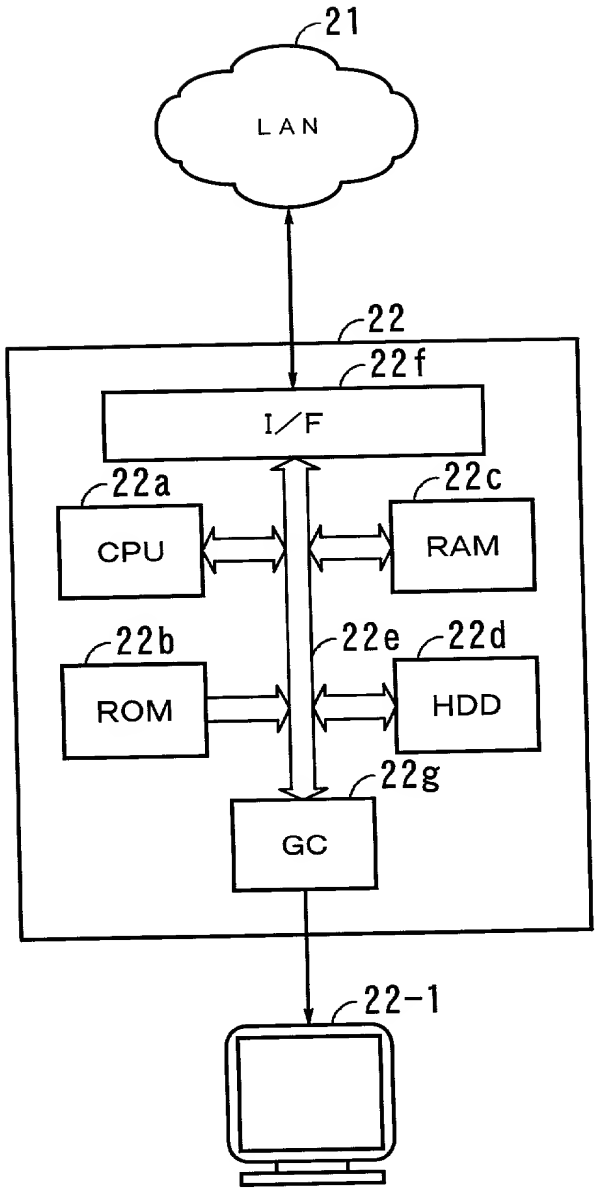

FIG. 4

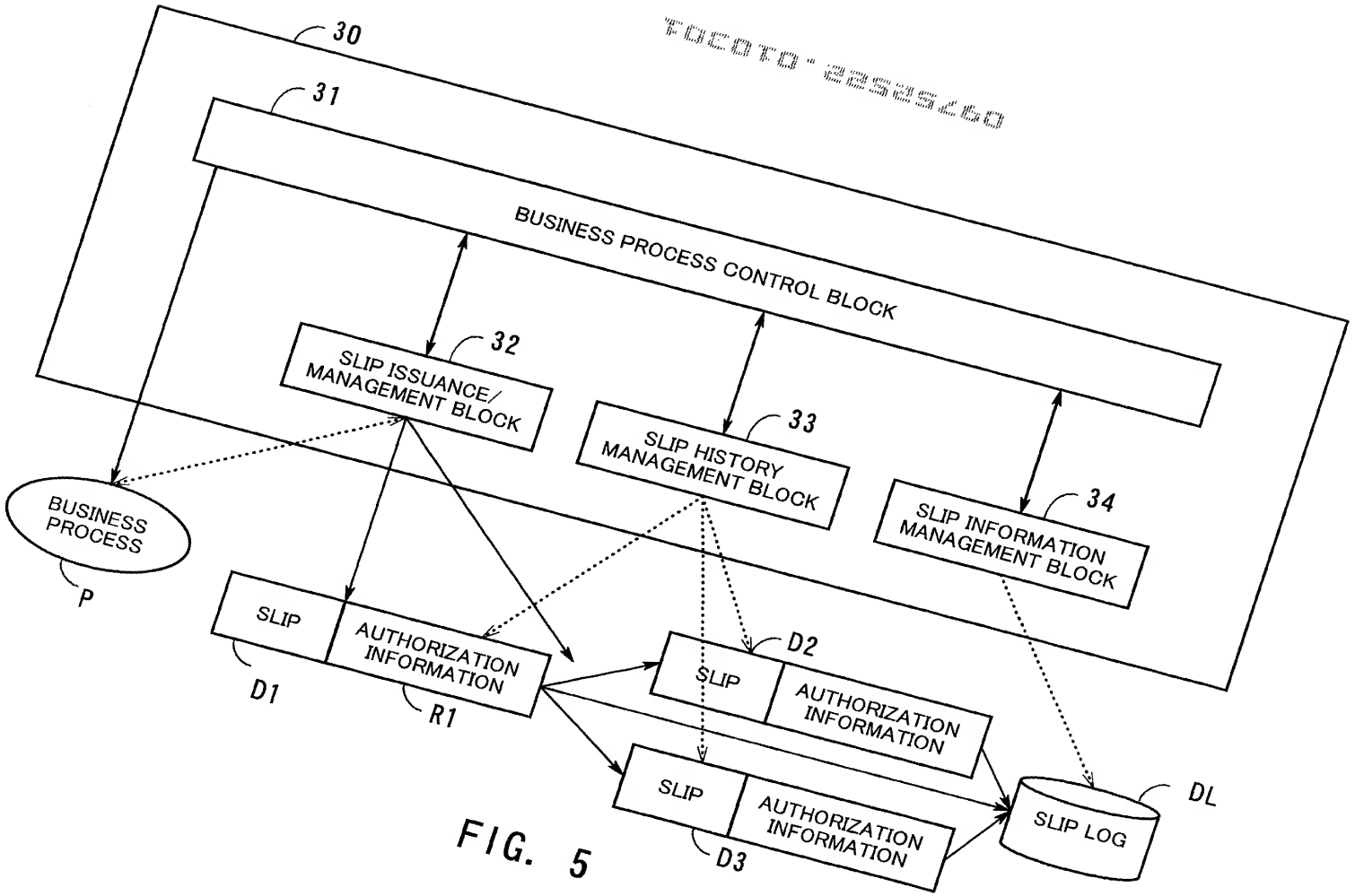
30
31
BUSINESS PROCESS CONTROL BLOCK
32
SLIP ISSUANCE/ MANAGEMENT BLOCK
33
SLIP HISTORY MANAGEMENT BLOCK
34
SLIP INFORMATION MANAGEMENT BLOCK
BUSINESS PROCESS
P
SLIP
AUTHORIZATION INFORMATION
D1
R1
D2
SLIP
AUTHORIZATION INFORMATION
SLIP
AUTHORIZATION INFORMATION
D3
SLIP LOG
DL

FIG. 5

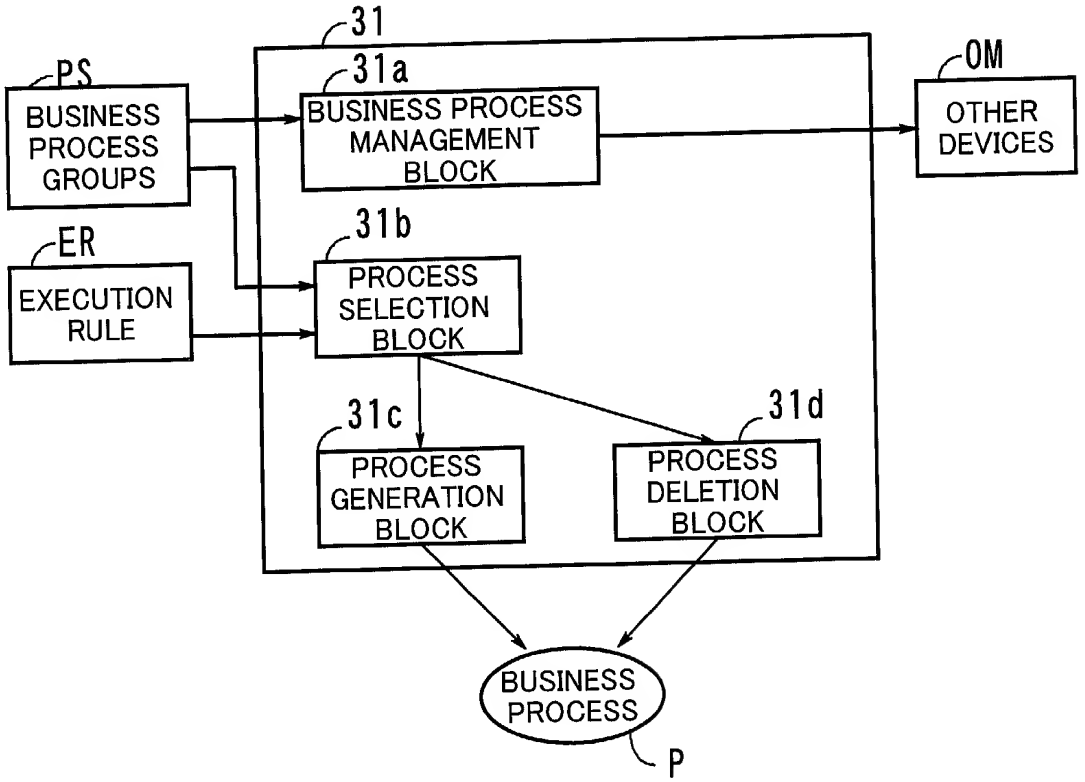
31
PS
BUSINESS PROCESS GROUPS
31a
BUSINESS PROCESS MANAGEMENT BLOCK
OM
OTHER DEVICES
ER
EXECUTION RULE
31b
PROCESS SELECTION BLOCK
31c
PROCESS GENERATION BLOCK
31d
PROCESS DELETION BLOCK
BUSINESS PROCESS
P

FIG. 6

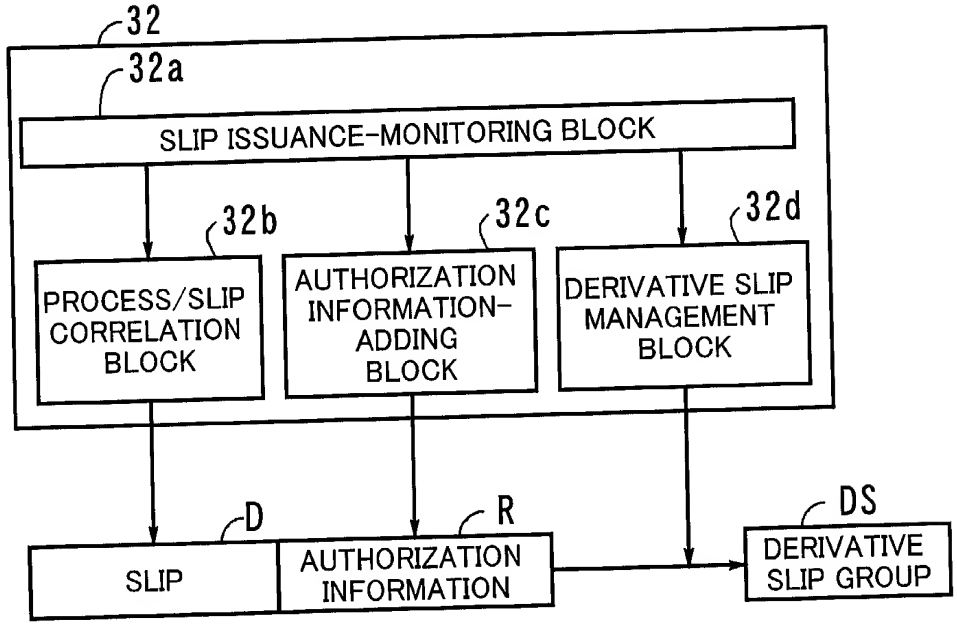
32
32a
SLIP ISSUANCE-MONITORING BLOCK
32b
32c
32d
PROCESS/SLIP CORRELATION BLOCK
AUTHORIZATION INFORMATION-ADDING BLOCK
DERIVATIVE SLIP MANAGEMENT BLOCK
D
R
DS
SLIP
AUTHORIZATION INFORMATION
DERIVATIVE SLIP GROUP

FIG. 7

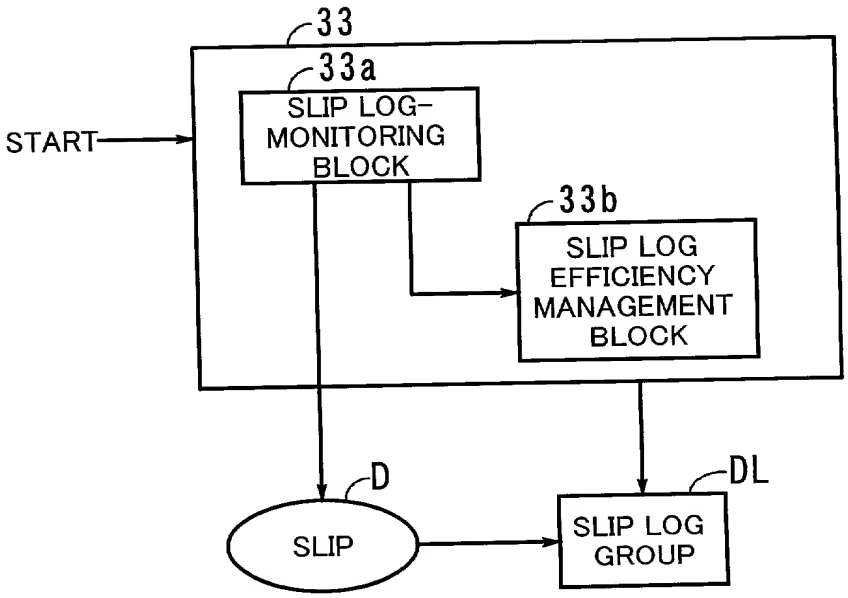
33
33a
SLIP LOG-
MONITORING
BLOCK
START
33b
SLIP LOG
EFFICIENCY
MANAGEMENT
BLOCK
D
DL
SLIP
SLIP LOG
GROUP

FIG. 8

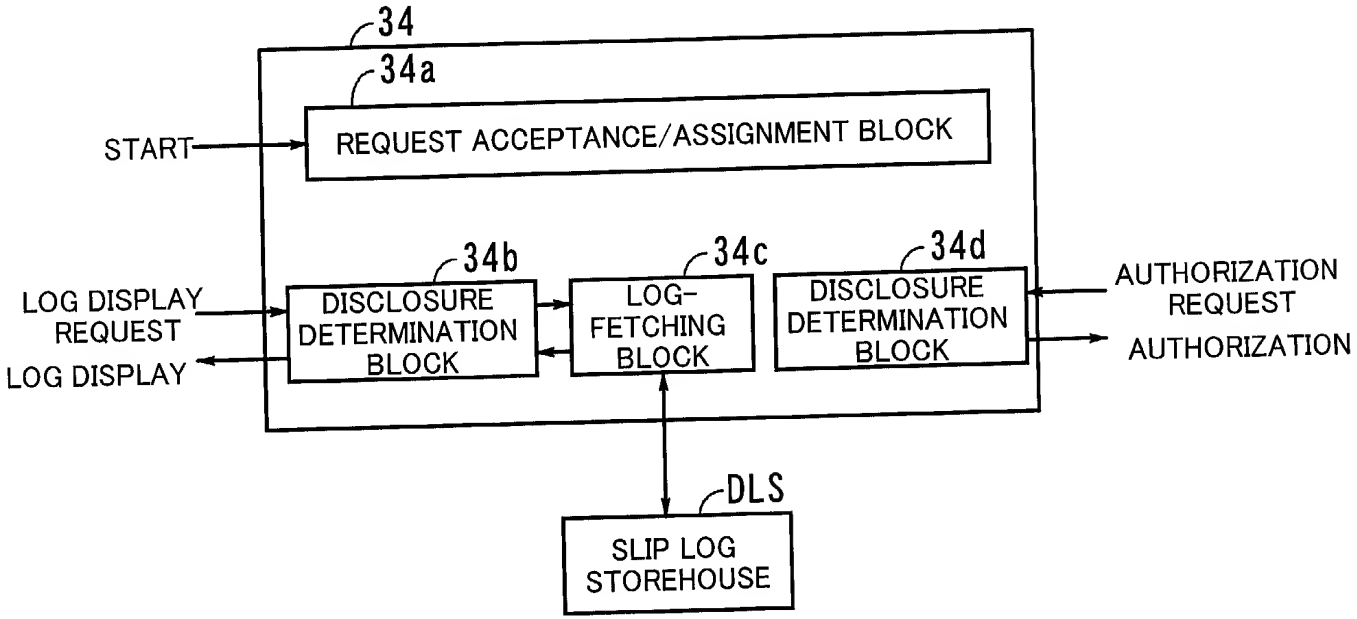
34
34a
START
REQUEST ACCEPTANCE/ASSIGNMENT BLOCK
34b
34c
34d
LOG DISPLAY REQUEST
LOG DISPLAY
DISCLOSURE DETERMINATION BLOCK
LOG-FETCHING BLOCK
DISCLOSURE DETERMINATION BLOCK
AUTHORIZATION REQUEST
AUTHORIZATION
DLS
SLIP LOG STOREHOUSE

FIG. 9

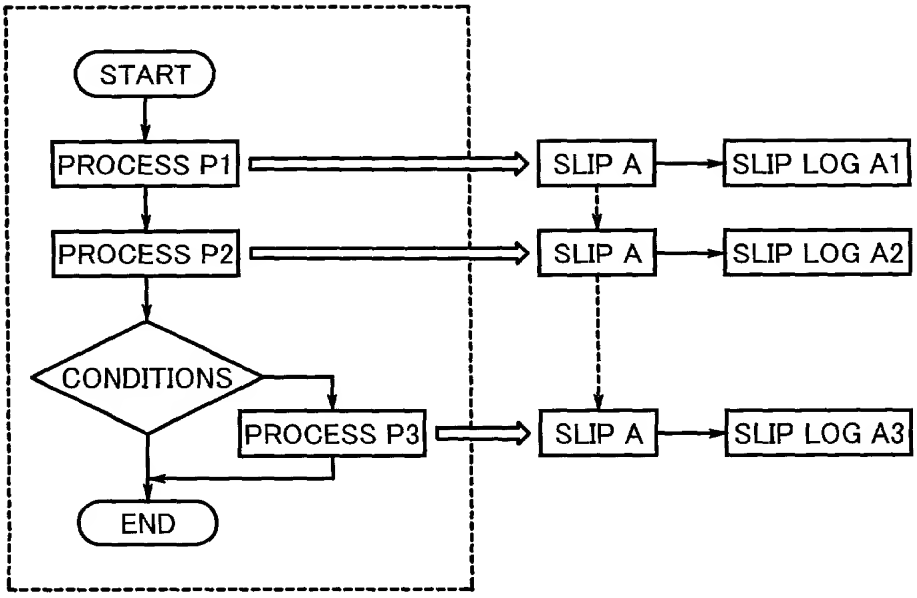
START
PROCESS P1
PROCESS P2
CONDITIONS
PROCESS P3
END
SLIP A
SLIP A
SLIP A
SLIP LOG A1
SLIP LOG A2
SLIP LOG A3

FIG. 10

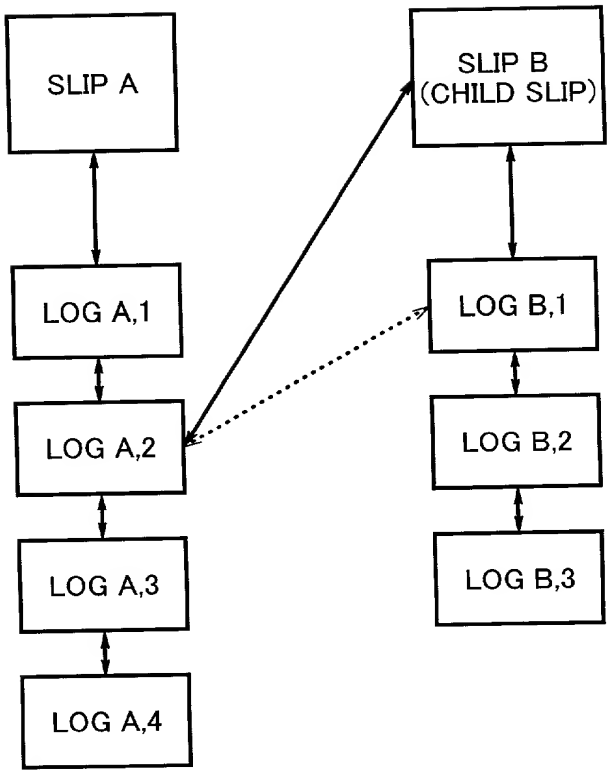
SLIP A
SLIP B
(CHILD SLIP)
LOG A,1
LOG B,1
LOG A,2
LOG B,2
LOG A,3
LOG B,3
LOG A,4

FIG. 11

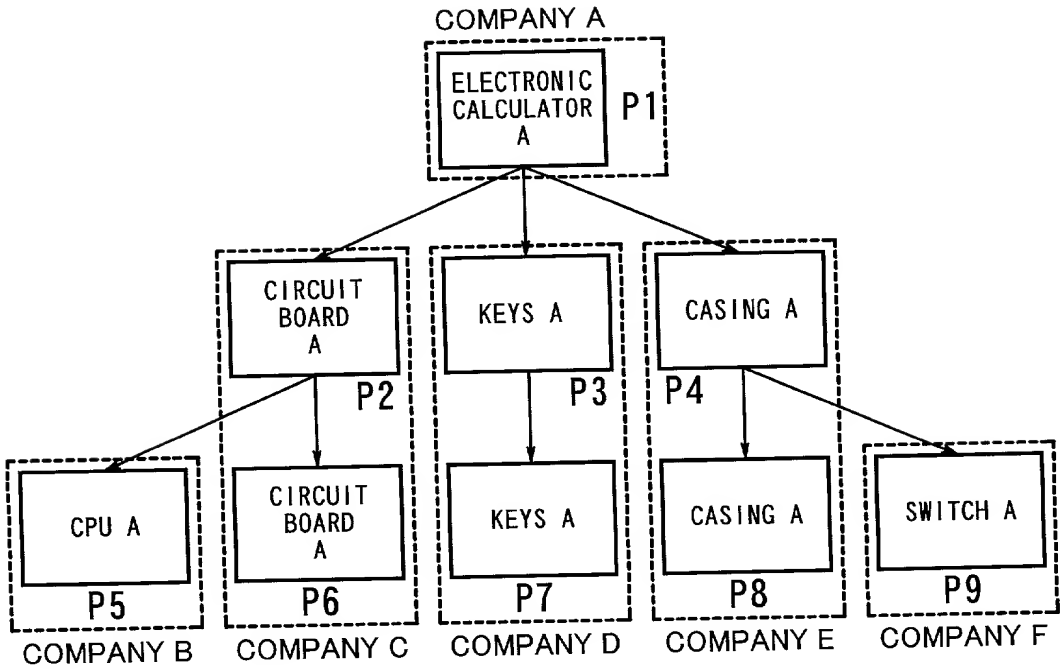
COMPANY A
ELECTRONIC CALCULATOR A
P1
CIRCUIT BOARD A
P2
KEYS A
P3
CASING A
P4
CPU A
P5
CIRCUIT BOARD A
P6
KEYS A
P7
CASING A
P8
SWITCH A
P9
COMPANY B
COMPANY C
COMPANY D
COMPANY E
COMPANY F

FIG. 12

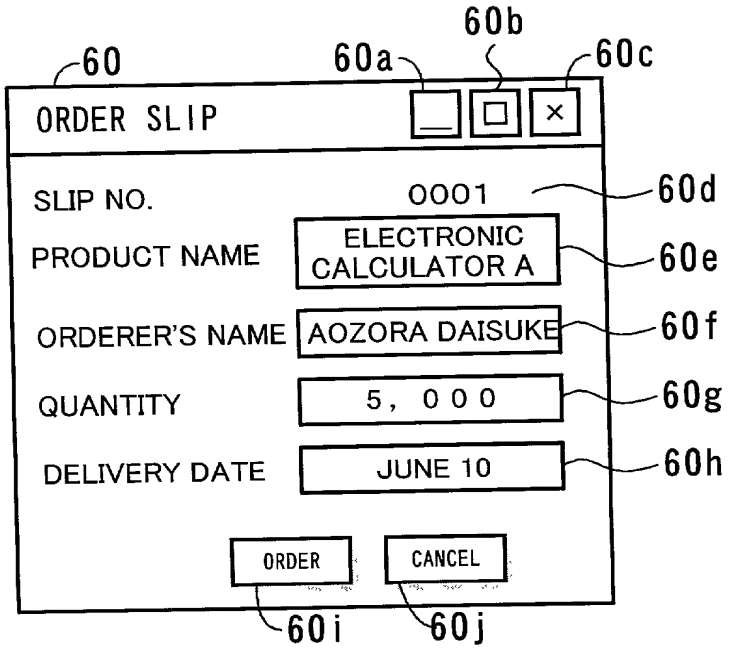
60
60a
60b
60c
ORDER SLIP
SLIP NO.
0001
60d
PRODUCT NAME
ELECTRONIC CALCULATOR A
60e
ORDERER'S NAME
AOZORA DAISUKE
60f
QUANTITY
5, 000
60g
DELIVERY DATE
JUNE 10
60h
ORDER
CANCEL
60i
60j

FIG. 13

70

ORDER SLIP	
SLIP NO.	0001
PRODUCT NAME	CIRCUIT BOARD A
ORDER Co.	○×ELECTRONICS
ORDERER'S NAME:	AOZORA DAISUKE
QUANTITY	5, 000
DELIVERY DATE	JUNE 10

FIG. 14

SLIP LOG ID	PROCESS ID	INTERNAL-PROCESS SERIAL NUMBER	SLIP LOG LOCATION
ID0001	1	—	PointerA

FIG. 15

80

ORDER SLIP	
SLIP NO.	0001－1
PRODUCT NAME	CIRCUIT BOARD A
ORDER Co.	○×ELECTRONICS
ORDERER'S NAME:	AOZORA DAISUKE
QUANTITY	5, 000
DELIVERY DATE	JUNE 5

FIG. 16

CHILD SLIP	ISSUANCE PROCESS
0001−1	P1
0001−2	P1
0001−3	P1

FIG. 17 (A)

PARENT SLIP	ISSUANCE PROCESS
0001	P1

FIG. 17 (B)

90

ORDER SLIP	
SLIP NO.	0001－1
PRODUCT NAME	CIRCUIT BOARD A
ORDER Co.	○×ELECTRONICS
ORDERER'S NAME:	AOZORA DAISUKE
QUANTITY	5, 000
DELIVERY DATE	JUNE 5
ORDER DATE	MAY 10 9:15
PERSON IN CHARGE	NAGAI SOUICHIROU

FIG. 18

100

ORDER SLIP	
SLIP NO.	0001－1－1
PRODUCT NAME	CPUA
ORDER Co.	○×PARTS
ORDERER'S NAME:	NAGAI SOUICHIROU
QUANTITY	5, 000
DELIVERY DATE	JUNE 1

FIG. 19

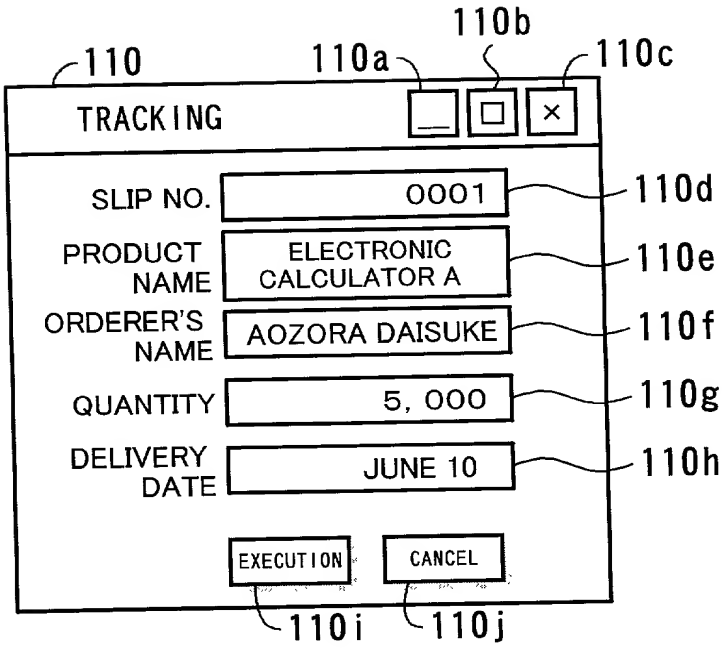
110
110a
110b
110c
TRACKING
SLIP NO.
0001
110d
PRODUCT NAME
ELECTRONIC CALCULATOR A
110e
ORDERER'S NAME
AOZORA DAISUKE
110f
QUANTITY
5, 000
110g
DELIVERY DATE
JUNE 10
110h
EXECUTION
CANCEL
110i
110j

FIG. 20

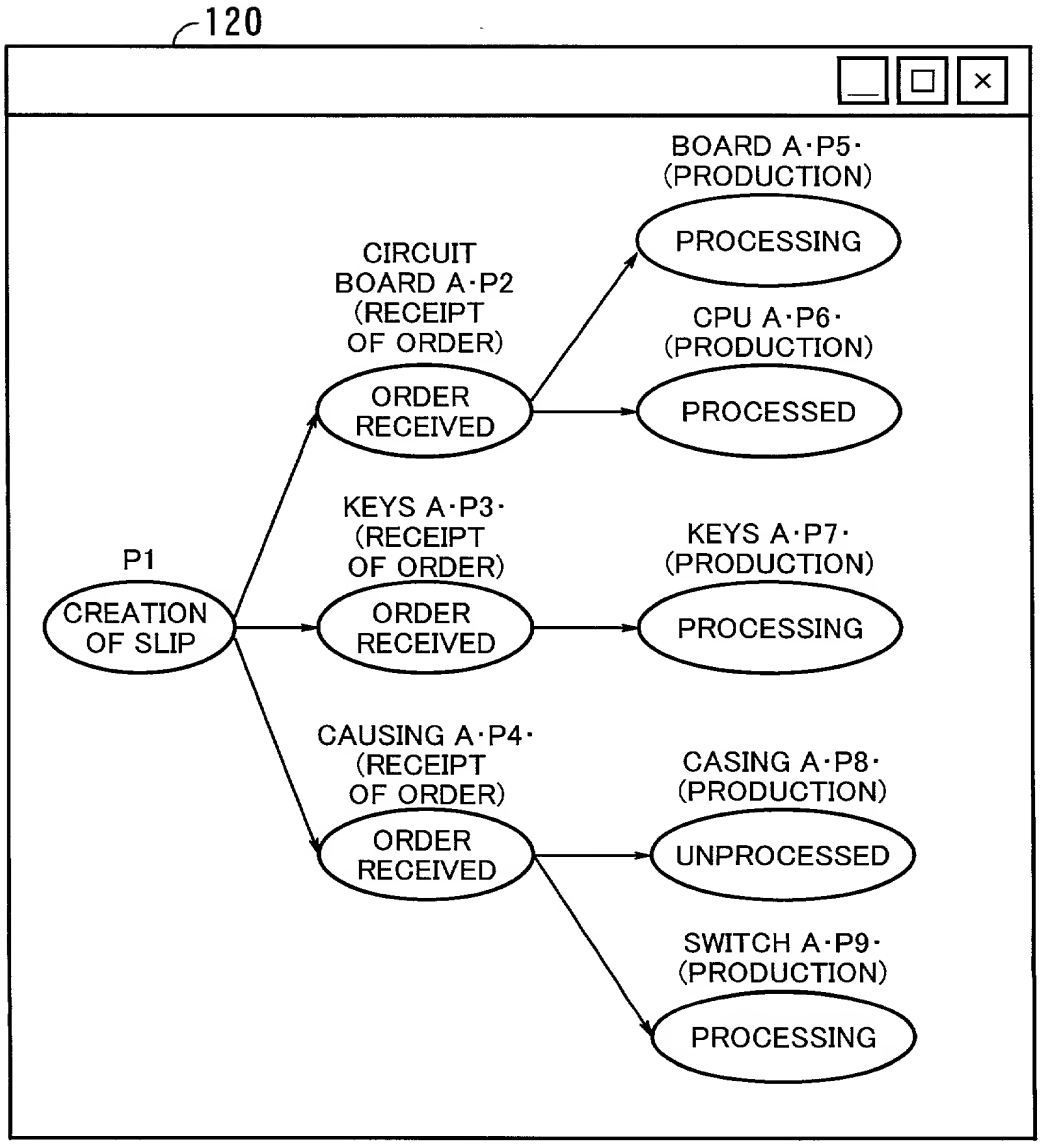
120
P1
CREATION OF SLIP
CIRCUIT BOARD A·P2 (RECEIPT OF ORDER)
ORDER RECEIVED
KEYS A·P3· (RECEIPT OF ORDER)
ORDER RECEIVED
CAUSING A·P4· (RECEIPT OF ORDER)
ORDER RECEIVED
BOARD A·P5· (PRODUCTION)
PROCESSING
CPU A·P6· (PRODUCTION)
PROCESSED
KEYS A·P7· (PRODUCTION)
PROCESSING
CASING A·P8· (PRODUCTION)
UNPROCESSED
SWITCH A·P9· (PRODUCTION)
PROCESSING

FIG. 21

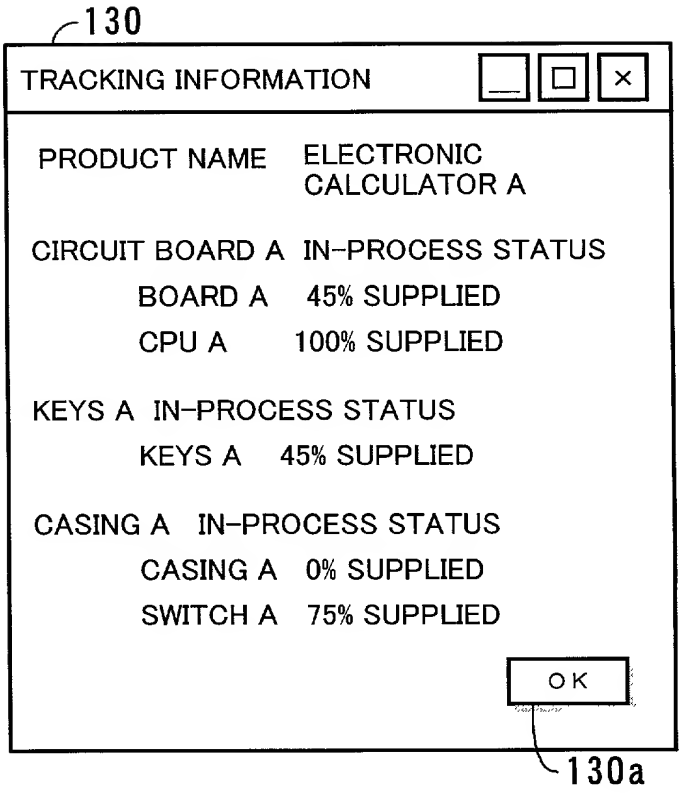
130
TRACKING INFORMATION
PRODUCT NAME ELECTRONIC CALCULATOR A
CIRCUIT BOARD A IN-PROCESS STATUS
BOARD A 45% SUPPLIED
CPU A 100% SUPPLIED
KEYS A IN-PROCESS STATUS
KEYS A 45% SUPPLIED
CASING A IN-PROCESS STATUS
CASING A 0% SUPPLIED
SWITCH A 75% SUPPLIED
OK
130a

FIG. 22

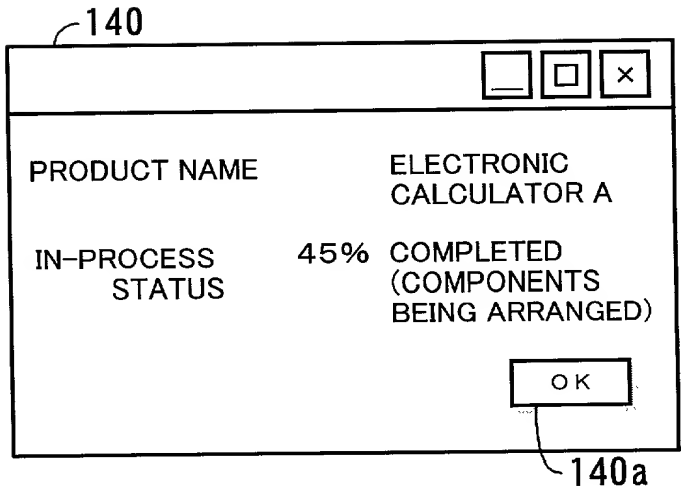
140
PRODUCT NAME
ELECTRONIC CALCULATOR A
IN-PROCESS STATUS
45%
COMPLETED (COMPONENTS BEING ARRANGED)
OK
140a

FIG. 23

LOG ID	ACCESS CHECK KEY
ID0001	XXXXX
ID0002	YYYYY
ID0003	ZZZZZ

FIG. 24(A)

KINDS OF INFORMATION	ACCESS CHECK KEY
ORDINARY INFORMATION	FREE (NO INFORMATION)
SECRET INFORMATION #1	XXXXX1
SECRET INFORMATION #2	YYYYY1

FIG. 24(B)

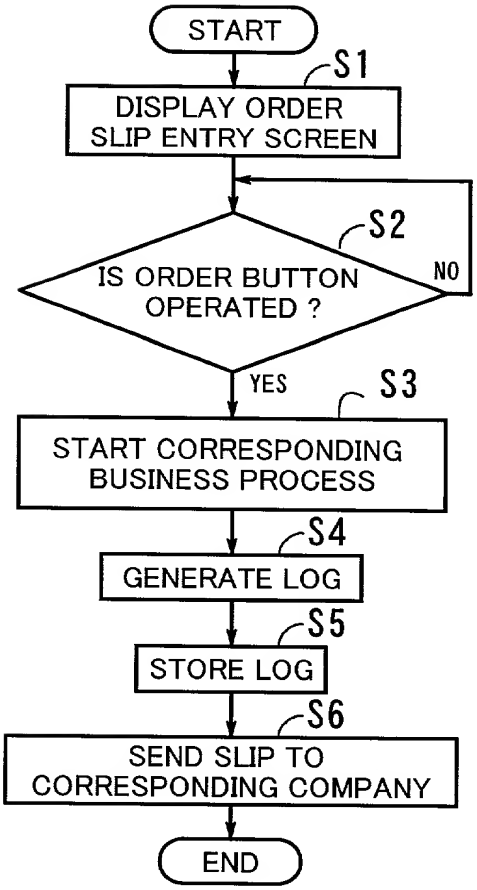
START
S1
DISPLAY ORDER SLIP ENTRY SCREEN
S2
IS ORDER BUTTON OPERATED ?
NO
YES
S3
START CORRESPONDING BUSINESS PROCESS
S4
GENERATE LOG
S5
STORE LOG
S6
SEND SLIP TO CORRESPONDING COMPANY
END

FIG. 25

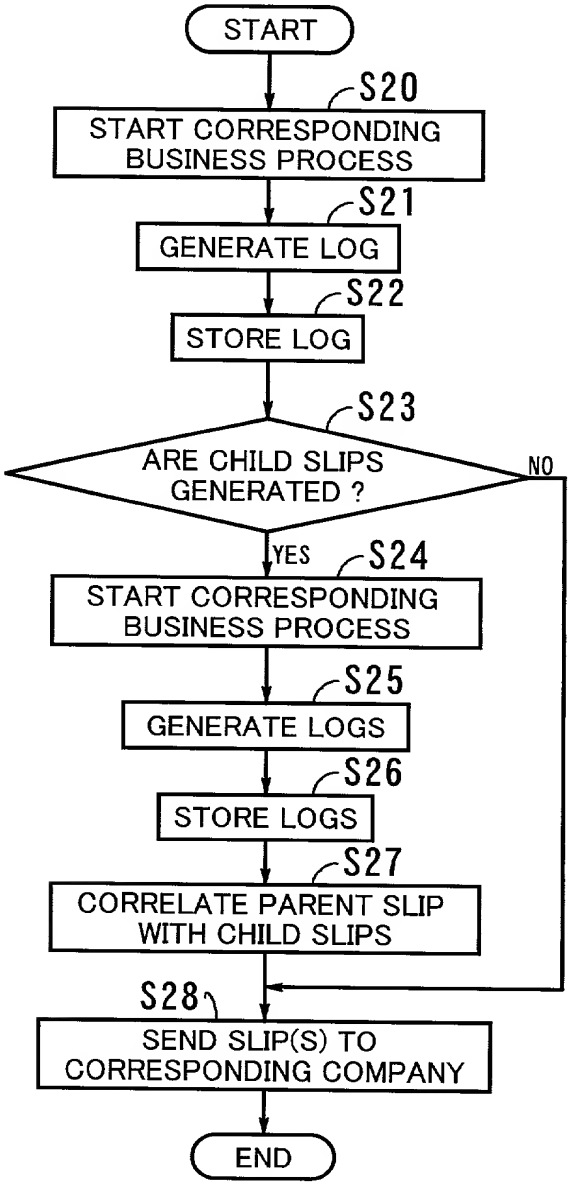
START
S20
START CORRESPONDING BUSINESS PROCESS
S21
GENERATE LOG
S22
STORE LOG
S23
ARE CHILD SLIPS GENERATED ?
NO
YES
S24
START CORRESPONDING BUSINESS PROCESS
S25
GENERATE LOGS
S26
STORE LOGS
S27
CORRELATE PARENT SLIP WITH CHILD SLIPS
S28
SEND SLIP(S) TO CORRESPONDING COMPANY
END

FIG. 26

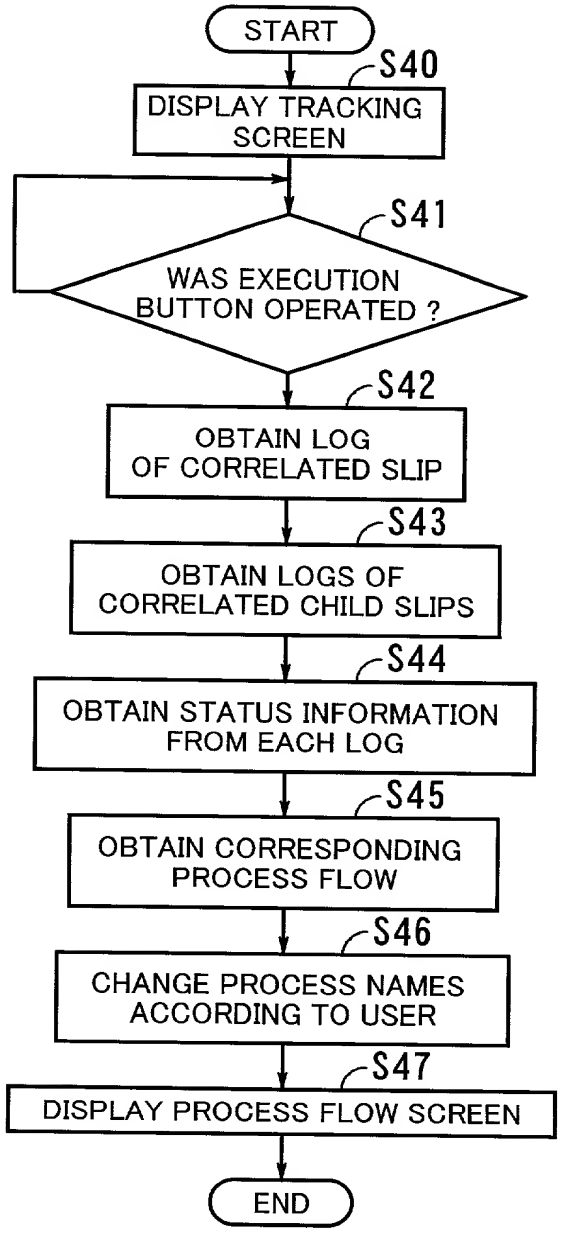
START
S40
DISPLAY TRACKING SCREEN
S41
WAS EXECUTION BUTTON OPERATED ?
S42
OBTAIN LOG OF CORRELATED SLIP
S43
OBTAIN LOGS OF CORRELATED CHILD SLIPS
S44
OBTAIN STATUS INFORMATION FROM EACH LOG
S45
OBTAIN CORRESPONDING PROCESS FLOW
S46
CHANGE PROCESS NAMES ACCORDING TO USER
S47
DISPLAY PROCESS FLOW SCREEN
END

FIG. 27

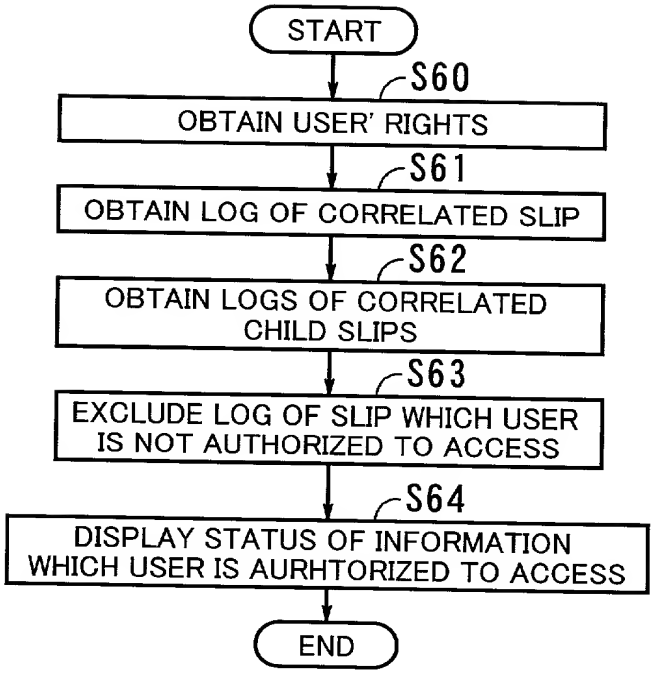
START
S60
OBTAIN USER' RIGHTS
S61
OBTAIN LOG OF CORRELATED SLIP
S62
OBTAIN LOGS OF CORRELATED CHILD SLIPS
S63
EXCLUDE LOG OF SLIP WHICH USER IS NOT AUTHORIZED TO ACCESS
S64
DISPLAY STATUS OF INFORMATION WHICH USER IS AURHTORIZED TO ACCESS
END

FIG. 28

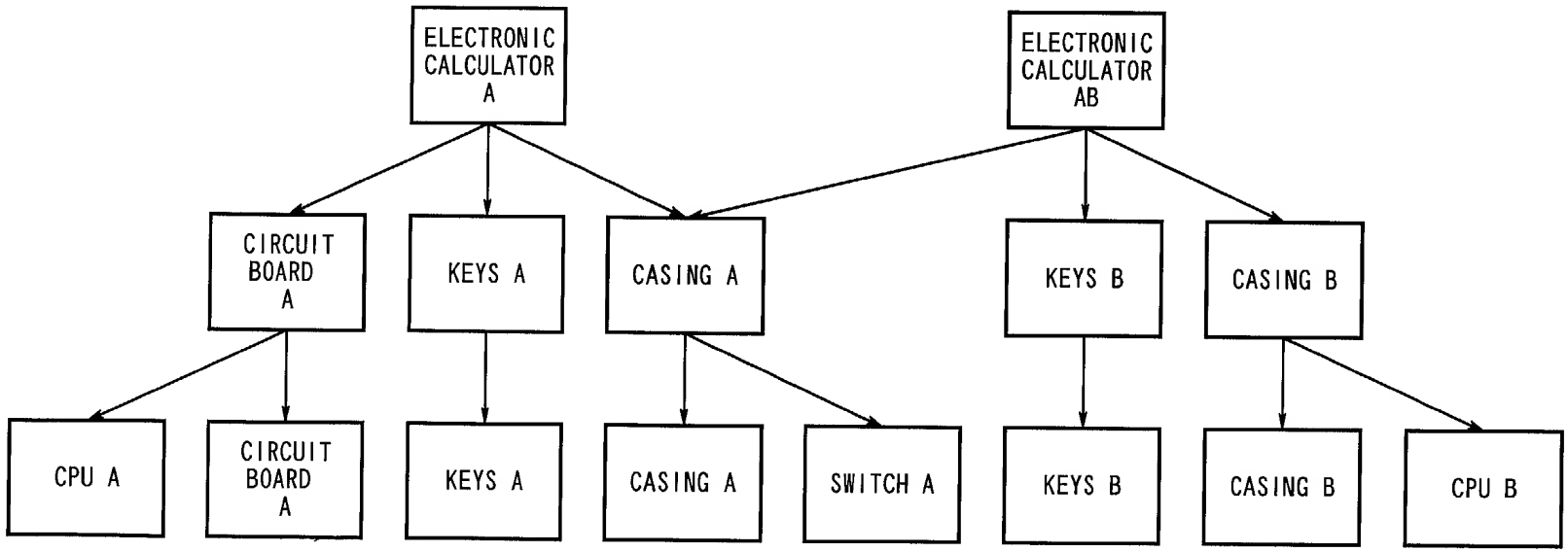
ELECTRONIC CALCULATOR A
ELECTRONIC CALCULATOR AB
CIRCUIT BOARD A
KEYS A
CASING A
KEYS B
CASING B
CPU A
CIRCUIT BOARD A
KEYS A
CASING A
SWITCH A
KEYS B
CASING B
CPU B

FIG. 29